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Name of plant: **Marutatsu Company's Ironworks (a)**

Location of plant: **Peiping (a)**

Date operation began: **Unknown (a)**

Capital: **30,000 yen (a)**

No. of workers: **23 (a)**

Type and number of production machinery: **Three lathes, one planner, and one boring machine (a)**

Type of products, and daily, monthly, or annual production capacity: **Construction equipment (a)**

Actual daily, monthly, or annual output: **1939 output: 25,000 kg of construction equipment (a)**

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941.

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939.

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941.

(d) Kita Shina Keizai Tokei Taiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943,

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Name of plant: **Li-hsing Ironworks (a)**

Location of plant: **Peiping (a)**

Date operation began: **1922 (a)**

Capital: **400 yen (a)**

No. of workers: **50 (a)**

Type and number of production machinery: **Six various types of machinery (a)**

Type of products, and daily, monthly, or annual production capacity: **Internal combustion engines (a)**

Actual daily, monthly, or annual output: **1939 output: one engine (a)**

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941 STAT

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TAMA Force, 31 December 1939 STAT

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941 STAT

(d) Kita Shina Keizai Tokei Teiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943, STAT

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Name of plant: **Kawazumi Ironworks, Peiping Branch (a)**

Location of plant: **Peiping (a)**

Date operation began: **Unknown (a)**

Capital: **Unknown (a)**

No. of workers: **32 (a)**

Type and number of production machinery: **Two lathes, two boring machines, one shaper, one 3-hp electric motor (a)**

Type of products, and daily, monthly, or annual production capacity: **Ordinary machinery; capacity unknown (a)**

Actual daily, monthly, or annual output: **Unknown (a)**

Remarks:

SOURCES

(a) Kahoku Koba Meiho, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941

(d) Kita Shina Keizai Tokei Teiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943,

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Name of plant: Chung-hua Boiler Company (a)

Location of plant: Peiping (a)

Date operation began: March 1917 (a)

Capital: 120,000 yen (a)

No. of workers: 79 (a)

Type and number of production machinery: Six lathes, one shaper, and two cutting machines (a)

Type of products, and daily, monthly, or annual production capacity:

Actual daily, monthly, or annual output: 1939 output: 230 boilers and 6,000 radiators (a)

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941.

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939.

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941.

(d) Kita Shina Keizai Tokei Teiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943,

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Name of plant: I-hsing-t'ai Ironworks (a)

Location of plant: Peiping (a)

Date operation began: Jan 1928 (a)

Capital: 34,000 yen (a)

No. of workers: 60 (a)

Type and number of production machinery: Three lathes and one smelting furnace (a)

Type of products, and daily, monthly, or annual production capacity:

Actual daily, monthly, or annual output: 1939 output, 640 boilers for home heating (a)

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941 STAT

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939 STAT

(c) Hokushi Shuyo Kobatyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941 STAT

(d) Kita Shina Keizai Tokei Teiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943, STAT

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Name of plant: **Pei-ta Ironworks (a)**

Location of plant: **Peiping (a)**

Date operation began: **March 1935 (a)**

Capital: **1,600 yen (a)**

No. of workers: **22 (a)**

Type and number of production machinery: **Three lathes, one milling machine, one 3-hp electric motor (a)**

Type of products, and daily, monthly, or annual production capacity: **Pumps and food-processing machinery (a)**

Actual daily, monthly, or annual output: **1939 output: 28 pumps and 10 sets of food-processing machinery (a)**

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941.

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939.

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941.

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Name of plant: **Ho-chi Ironworks (a)**

Location of plant: **Peiping (a)**

Date operation began:

Capital:

No. of workers: **44 (a)**

Type and number of production machinery: **Six lathes, 4 presses, two boring machines, two 10-hp electric motors (a)**

Type of products, and daily, monthly, or annual production capacity: **Printing machines (a)**

Actual daily, monthly, or annual output: **1939 output: 117 printing machines (a)**

Remarks:

SOURCES

(a) Kahoku Kogo Meiko, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941.

(b) Hokushi Shuyo Kogo Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TAMA Force, 31 December 1939.

(c) Hokushi Shuyo Kogo oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941.

(d) Kita Shina Keizai Tokei Teiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943.

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Name of plant: Nagamasu Ironworks (acd)

Location of plant: Peiping (acd)

Date operation began: June 1938 (acd)

Capital: 750,000 yen (a) 20,000,000 yen (c)

No. of workers: 230 (a) 164 (d)

Type and number of production machinery: Thirty lathes, 12 boring machines, 3 planners, one 50-hp and two 25-hp gasoline engines (a). 48 lathes, 10 boring machines, and electric motors totaling 107 hp. (c). 35 lathes, two planners, three boring machines, and 8 shaping machines (d)

Type of products, and daily, monthly, or annual production capacity: Various types of machinery (acd)

Actual daily, monthly, or annual output: 1939 output: 350,000 yen worth of railway equipment and railway signals, and various types of machinery (a). 1940 output: 177,000 yen worth of various types of machinery; 1941 output: 153,400 yen worth of various types of machinery (d)

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1943.

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TAMA Force, 31 December 1939.

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941.

(d) Kita Shina Keizai Tokei Taiyo (Statistical Tables for North China's Economics), published by the South Manchurie Railway, March 1943.

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Name of plant: Tz'u-hsing Machinery Factory (c)

Location of plant: Peiping (c)

Date operation began: Jan 1921 (c)

Capital: 200,000 yen (c)

No. of workers:

Type and number of production machinery: Seven lathes, one boring machine, and electric motors totaling 10 hp. (c)

Type of products, and daily, monthly, or annual production capacity: Various types of machinery (c)

Actual daily, monthly, or annual output:

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941

(d) Kita Shina Keizai Tokei Teiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943,

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Name of plant: Hai-ching Ironworks (c)

Location of plant: Peiping (c)

Date operation began: Jan 1922 (c)

Capital: 150,000 yen (c)

No. of workers:

Type and number of production machinery: 33 lathes, 4 boring machines, and electric motors totaling 35 hp. (c)

Type of products, and daily, monthly, or annual production capacity: Various types of machinery (c)

Actual daily, monthly, or annual output:

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941 STAT

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939 STAT

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941 STAT

(d) Kita Shina Keizai Tokei Taiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943, STAT

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Name of plant: Toyoda Ironworks (acd)

Location of plant: Tsingtao (acd)

Date operation began: Dec 1938 (acd)

Capital: 1,000,000 yen (ac), 1,500,000 yen (d)

No. of workers: 674 (a) 865 (d)

Type and number of production machinery: Thirty-five lathes, two shaping machines, and 11 boring machines (a) 56 lathes and 12 boring machines (c). 84 lathes, 8 milling machines, 25 boring machines (d)

Type of products, and daily, monthly, or annual production capacity: Textile machinery, and spare parts for mining machinery, railway equipment, and electrical equipment (a) Various types of textile and other machinery (c). Annual capacity: 3,096,000 yen worth of rolling stock spare parts, 898,000 yen worth of mining machinery spare parts, 1,020,000 yen worth of textile machinery and spare parts, and 1,200,000 yen worth of other types of machinery (d)

Actual daily, monthly, or annual output: 1939 output: 552,074 yen worth of textile machinery, and 245,766 yen worth of spare parts (a). 1940 output, 9,200 yen worth of rolling stock spare parts, 45,215 yen worth of textile machinery, and 72,700 yen worth of other types of machinery; 1941 output, 22,500 yen worth of rolling stock spare parts, 5,100 yen worth of mining machinery spare parts, 66,019 yen worth of textile machinery, and 121,202 yen worth of other types of machinery (d)

Remarks: This plant was formerly known as the Li-sheng Ironworks

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941 STAT

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939 STAT

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941 STAT

(d) Kita Shina Keizai Tokei Teiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943, STAT

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Name of plant: Toa Heavy Industry Company (acd)

Location of plant: Tsingtao (acd)

Date operation began: Apr 1939 (acd)

Capital: 2,000,000 yen (acd)

No. of workers: 201(a) 583 (d)

Type and number of production machinery: 189 pieces of various production machinery (a). 48 lathes and 14 boring machines (c). Two electric furnaces (5 tons and 1½ tons), one melting pot (2½ tons), and 105 various types of production machinery (d).

Type of products, and daily, monthly, or annual production capacity: Textile machinery (a). Textile machinery and spare parts (c). Annual capacity; 150,000 yen worth of mining machinery, 157,000 yen worth of rolling stock spare parts, 820,000 yen worth of power plant equipment, 240,000 yen worth of machine tools, 120,000 yen worth of pumps, 415,000 yen worth of chemical industrial machinery, 280,000 yen worth of steel ingots, 290,000 yen worth of various machinery spare parts, and 300,000 yen worth of various construction (d).

Actual daily, monthly, or annual output: 1939 output, 110,800 yen worth of textile machinery (a). 1940 output; 18 pieces of power plant machinery, three machine tools, one pump, one chemical industrial machinery, and some machinery spare parts; 1941 output; five mining machinery, 447 pieces of railway equipment, 53 power plant machinery, 26 machine tools, 88 pumps, 38 chemical industrial machinery, 18,022 kg of steel ingots, some machinery spare parts, and 15 pieces of construction works (d).

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941

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Name of plant: Ichikawa Company's Ironworks (acd)

Location of plant: Tsingtao (acd)

Date operation began: 1937 (acd)

Capital: 135,000 yen (a), 150,000 (c), 135,000 (d)

No. of workers: 51 (a), 61(d)

Type and number of production machinery: Three lathes and 3 boring machines (c). Three lathes, three boring machines, one shaping machine, and one milling machine (d).

Type of products, and daily, monthly, or annual production capacity: Internal combustion engines (ac). 1939 annual capacity: 1,000 hp of engines (a). Annual capacity: 660 hp of internal combustion engines for land use, 220 hp of engines for ship use, repairs of 2,850 hp of engines for land use, 13,500 hp of gasoline engines, Also repairs of ship engines and repairs of ships (d).

Actual daily, monthly, or annual output: 1939 output: 20,000 yen worth of internal combustion engines (a). 1936 output: 12 100-hp engines, 1939 output: 12 100-hp engines (c). 1940 output: three internal combustion engines for land use, five engines for ship use, and 135 gasoline engines; 1941 output: five engines for land use, 3 engines for ship use, 12 gasoline engines, and repaired 50 ship engines and 75 ships (d).

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941 STAT

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939 STAT

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941 STAT

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Name of plant: Ying-t'ai Company's Ironworks and Woodworks (ac)

Location of plant: Tsingtao (ac)

Date operation began: Aug 1938 (ac)

Capital: 50,000 yen (ac)

No. of workers: 111 (a)

Type and number of production machinery: Seven lathes, 3 boring machines, and electric motors totaling 27 hp (c)

Type of products, and daily, monthly, or annual production capacity: Textile machinery spare parts (a). Repairs of various machinery (c).

Actual daily, monthly, or annual output: 1939 output: 30,035 yen worth of textile machinery spare parts (a).

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941.

(d) Kita Shina Keizai Tokei Taiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943,

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Name of plant: Hsing-tao Ironworks (acd)

Location of plant: Tsingtao (acd)

Date operation began: Sep 1939 (acd)

Capital: 60,000 yen (ac). 100,000 yen (d)

No. of workers: 70 (a). 24 (d)

Type and number of production machinery: Seven lathes and 3 boring machines (a). 11 lathes, 3 boring machines, and electric motors totaling 10 hp (c).

Type of products, and daily, monthly, or annual production capacity: Textile machinery (acd). Textile machinery spare parts (d).

Actual daily, monthly, or annual output: 1939 output: 460 pieces of textile machinery parts (a). 1939 output: 30 looms and 10 machine tools (c). 1940 output: 1,283 pieces of textile machinery parts; 1941 output: 743 pieces of textile machinery parts (d).

Remarks: This plant was formerly known as the Nitto Ironworks (d)

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941

(d) Kita Shina Keizai Tokei Teiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943,

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Name of plant: Nakao Ironworks (a)

Location of plant: Tsingtao (a)

Date operation began: Jun 1934 (a)

Capital: 20,000 yen (a)

No. of workers: 30 (a)

Type and number of production machinery:

Type of products, and daily, monthly, or annual production capacity: 1939 annual capacity: 5,500 yen worth of textile machinery spare parts (a)

Actual daily, monthly, or annual output: 1939 output: 23,691 yen worth of textile machinery spare parts (a)

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941

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Name of plant: Tanaka Ironworks, Tsingtao Branch (acd)

Location of plant: Tsingtao (acd)

Date operation began: Jul 1932 (acd)

Capital: 110,000 yen (a), 150,000 yen (c) 200,000 yen (d)

No. of workers: 57 (a) 113 (d)

Type and number of production machinery: 27 lathes, 3 boring machines, and electric motors totaling 26 hp (c). 22 lathes, 2 milling machines, 2 boring machines, and one ½-MT melting furnace (d).

Type of products, and daily, monthly, or annual production capacity: 1939 annual capacity: 250,000 yen worth of textile machinery spare parts (a).

Actual daily, monthly, or annual output: 1939 output: 224,870 yen worth of textile machinery spare parts(a). 1939 output: 215 MT of textile machinery spare parts (c) 1940 output: 561 pieces of textile machinery spare parts, 128 pieces of automobile parts, two 6-ft lathes, and one cutting machine; 1941 output: 879 pieces of textile machinery parts, 110 pieces of automobile parts, four lathes, and one cutting machine (d).

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941 STAT

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TAMA Force, 31 December 1939 STAT

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941 STAT

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Name of plant: Murakami Ironworks (ac)

Location of plant: Tsingtao (ac)

Date operation began: June 1938 (ac)

Capital: 3,000 yen (c)

No. of workers: 19 (a)

Type and number of production machinery: Two lathes, two milling machines, one boring machine, and one electric motor (a).

Type of products, and daily, monthly, or annual production capacity: Various machinery (a). Manufacturing and repairing of various machinery and machinery parts (c)

Actual daily, monthly, or annual output:

Remarks:

SOURCES

(a) Kahoku Keba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941

(d) Kita Shina Keizai Tokei Teiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943,

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Name of plant: Kai Ironworks (ac)

Location of plant: Tsingtao (ac)

Date operation began: June 1931 (ac)

Capital: 200,000 yen (a)

No. of workers: 50 (a)

Type and number of production machinery: 17 lathes, 5 milling machines, and 3 boring machines (ac). Electric motors totaling 7.5 hp (c)

Type of products, and daily, monthly, or annual production capacity: Various machinery and machinery parts (ac)

Actual daily, monthly, or annual output: 1939 output: 40,533 yen worth of various machinery and machinery parts (a).

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941

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Name of plant: Showa Ironworks (a)

Location of plant: Tsingtao (a)

Date operation began: June 1933 (a)

Capital:

No. of workers: 30 (a)

Type and number of production machinery: Six lathe, two boring machines, and one electric motor (a)

Type of products, and daily, monthly, or annual production capacity: Textile machinery spare parts (a)

Actual daily, monthly, or annual output: 1939 output: 70,000 yen worth of textile machinery spare parts (a)

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941

(d) Kita Shina Keizai Tokei Teiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943,

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Name of plant: Hirota Ironworks (ac)

Location of plant: Tsingtao (ac)

Date operation began: 1932 (ac)

Capital:

No. of workers: 39 (a)

Type and number of production machinery: Four lathes, two drilling machines, and one shaping machine (a)

Type of products, and daily, monthly, or annual production capacity: Textile machinery (a) Construction of various types of machinery, and machinery spare parts (c)

Actual daily, monthly, or annual output: 1939 output: 30,000 yen worth of textile machinery (a)

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941

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Name of plant: Fu-chi Ironworks (a)

Location of plant: Tsingtao (a)

Date operation began: 1920 (a)

Capital: 15,000 yen (a)

No. of workers: 30 (a)

Type and number of production machinery: Nine lathes, one planner, one drillingmachine, and one electric motor (a)

Type of products, and daily, monthly, or annual production capacity: Flour making machines, and dyeing machines (a)

Actual daily, monthly, or annual output: 1939 output: 26,000 yen worth of flour making machines, and 26,500 yen worth of dyeing machines (a)

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Kobo Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

(c) Hokushi Shuyo Kobo oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941

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Name of plant: Yu-feng Ironworks (a)

Location of plant: Tsingtao (a)

Date operation began: 1920 (a)

Capital: 20,000 yen (a)

No. of workers: 27 (a)

Type and number of production machinery: Seven lathes, two drilling machines, one gear cutter, and one electric motor (a)

Type of products, and daily, monthly, or annual production capacity: Various machinery spare parts (a)

Actual daily, monthly, or annual output: 1939 output: 91,182 yen worth of various machinery spare parts (a)

Remarks:

SOURCES

(a) Kahoku Kōba Meibo, Shōwa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Kōba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

(c) Hokushi Shuyo Kōba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941.

(d) Kita Shina Keizai Tokei Teiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943,

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Name of plant: Fu-ho-lu Ironworks (a)

Location of plant: Tsingtao (a)

Date operation began: 1933 (a)

Capital: 7,000 yen (a)

No. of workers: 22 (a)

Type and number of production machinery: Four lathes, one drilling machine, one shaping machine, one melting pot, and one electric motor (a)

Type of products, and daily, monthly, or annual production capacity: Textile machinery spare parts (a)

Actual daily, monthly, or annual output: 1939 output: 9,000 yen worth of textile machinery spare parts (a)

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941

(d) Kita Shina Keizai Tokei Teiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943,

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Name of plant: Chu-feng Ironworks (a)

Location of plant: Tsingtao (a)

Date operation began: Jan 1939 (a)

Capital: 10,000 yen (a)

No. of workers: 30 (a)

Type and number of production machinery: Seven lathe, one planner, one drillingmachine, one electric motor (a)

Type of products, and daily, monthly, or annual production capacity: Textile machinery spare parts (a)

Actual daily, monthly, or annual output: 1939 output: 30,000 yen worth of textile machinery spare parts (a)

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941

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Name of plant: Yuan-chu Ironworks (a)

Location of plant: Tsingtao (a)

Date operation began: March 1932 (a)

Capital: 6,000 yen (a)

No. of workers: 28 (a)

Type and number of production machinery: Four lathes, one drilling machine, one shaping machine, and two electric motors (a)

Type of products, and daily, monthly, or annual production capacity: Machinery and machinery spare parts (a)

Actual daily, monthly, or annual output: 1939 output: 43,000 yen worth of machinery and machinery spare parts (a)

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941

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Name of plant: Heng-shun Ironworks (a)

Location of plant: Tsingtao (a)

Date operation began: March 1931 (a)

Capital: 20,000 yen (a)

No. of workers: 31 (a)

Type and number of production machinery:

Type of products, and daily, monthly, or annual production capacity: Annual capacity: 224,600 yen worth of ordinary machinery and equipment (a)

Actual daily, monthly, or annual output: 1939 output: 30 pieces of machinery valued at 13,900 yen (a)

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941

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Name of plant: Te-shun-lu Ironworks (a)

Location of plant: Tsingtao (a)

Date operation began: 1920 (a)

Capital: 80,000 yen (a)

No. of workers: 54 (a)

Type and number of production machinery: Ten lathe, two shaping machines, one drilling machine, and two electric motors (a)

Type of products, and daily, monthly, or annual production capacity: Machinery and machinery parts (a)

Actual daily, monthly, or annual output: 1939 output: 69,000 yen worth of machinery and machinery parts (a)

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941

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Name of plant: Ho-shun-ch'eng Ironworks (a)

Location of plant: Tsingtao (a)

Date operation began: 1912 (a)

Capital: 6,000 yen (a)

No. of workers: 31 (a)

Type and number of production machinery: Four lathes, six drilling machines, and one electric motor (a)

Type of products, and daily, monthly, or annual production capacity: Various types of machinery (a)

Actual daily, monthly, or annual output: 1939 output: 11,000 yen worth of machinery (a)

Remarks:

SOURCES

(a) Kahoku Kogo Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Kogo Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

(c) Hokushi Shuyo Kogo oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941

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Name of plant: Tientsin Casting Plant (cd)

Location of plant: Tientsin (cd)

Date operation began: 1939 (a)

Capital: 33,000 yen (cd)

No. of workers: 132 (d)

Type and number of production machinery: 14 lathes, and 4 drilling machines (c)
14 lathes, 3 drilling machines, one milling machine, one shaping machine, and one electric motor (d)

Type of products, and daily, monthly, or annual production capacity: 1939 capacity: 2,000 scales, 600 pieces of textile machinery parts, and 900 pieces of castings (c). 1940 capacity: 4,300 narrow-gauge railway cars, 3,800 scales, 250 dump cars, and 1,200 wooden coal-mine cars (d)

Actual daily, monthly, or annual output: 1940 output: 4,500 narrow-gauge railway cars, 3,000 scales, 150 dump cars, and 1,000 wooden coal-mine cars; 1941 output: 4,800 narrow-gauge railway cars, 3,400 scales, 150 dump cars, and 1,000 wooden coal-mine cars (d)

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941 STAT

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939 STAT

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941 STAT

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Name of plant: Yasuhara Manufacturing Plant (cd)

Location of plant: Tientsin

Date operation began: May 1938 (d)

Capital: 100,000 yen (cd)

No. of workers: 33 (d)

Type and number of production machinery: 12 lathes, one planner, two shaping machines, four drilling machines, and one milling machine (cd)

Type of products, and daily, monthly, or annual production capacity: 1939 annual capacity: 100 lathes and 80 jacks (c). Manufacture machinery and machinery parts, and repair machinery (d)

Actual daily, monthly, or annual output:

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941

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Name of plant: Te-li-hsing Ironworks (cd)

Location of plant: Tientsin (cd)

Date operation began: April 1938 (d)

Capital: 170,000 yen (c), 200,000 yen (d)

No. of workers: 226 (d)

Type and number of production machinery: 61 lathes, 21 drilling machines, and electric motors toteling 45 hp (c). 54 lathes, 13 planners, 8 shaping machines, and 17 drilling machines (d)

Type of products, and daily, monthly, or annual production capacity: Annual output capacity: 380 machine tools and various other machinery (d)

Actual daily, monthly, or annual output: 1940 output: 320 machine tools and various other machinery; 1941 output: 335 machine tools and various other machinery (d)

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

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Name of plant: Toho Ironworks (cd)

Location of plant: Tientsin (cd)

Date operation began: 1919 (c)

Capital: 500,000 yen (c) 1,200,000 yen (d)

No. of workers: 84 (d)

Type and number of production machinery: 17 lathes and 5 drilling machines (c)
20 lathes and 3 drilling machines (d)

Type of products, and daily, monthly, or annual production capacity: Various types of machinery (cd)

Actual daily, monthly, or annual output:

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

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Name of plant: Sanchu Ironworks (cd)

Location of plant: Tientsin (cd)

Date operation began: 1937 (cd)

Capital: 500,000 yen (cd)

No. of workers: 287 (d)

Type and number of production machinery: 16 lathes, 8 drilling machines, and electric motors totaling 32 hp (c). 14 lathes, 5 drilling machines, 2 shaping machines, one grinding machine (d)

Type of products, and daily, monthly, or annual production capacity: 1939 annual capacity: 3,300 MT of reclaimed pig iron, 3,102 MT of iron castings, 2,000 MT of other metal products, and 1,000 MT of machinery (c). 1940 annual capacity: 12 20-inch pumps, 12 28-inch pumps, 30 18-inch pumps, and four paper making machines (d)

Actual daily, monthly, or annual output: 1941 output: 5 20-inch pumps, three 28-inch pumps, three 18-inch pumps, and one paper making machine (d)

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941.

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939.

(c) Hokushi Shuyo Koba oyobi Jigyojo Seinan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941.

(d) Kita Shina Keizai Tokei Teiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943.

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Name of plant: Koa Metalworking Company (cd)

Location of plant: Tientsin (cd)

Date operation began: 1936 (cd)

Capital: 500,000 yen (c) 1,000,000 yen (d)

No. of workers: 394 (d)

Type and number of production machinery: 28 lathes, 6 drilling machines, and electric motors totaling 27 hp (c). 85 lathes, 11 milling machines, 6 shaping machines, two turret lathes, 8 drilling machines, three 300-ton friction presses, three 35-ton hand presses (d)

Type of products, and daily, monthly, or annual production capacity: 1940 annual capacity: 2,800,000 yen worth of armaments and armamentparts, and various types of machinery (d)

Actual daily, monthly, or annual output: 1940 output: 92,143 yen worth of armaments and various types of machinery; 1941 output: 890,730 yen worth of armaments and various types of machinery (d).

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941 [redacted] 53)

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TAMA Force, 31 December 1939 [redacted]

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941 [redacted]

(d) Kita Shina Keizai Toke Taiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943, [redacted]

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Name of plant: Mitsui Ironworks (c)

Location of plant: Tientsin (c)

Date operation began: 1938 (c)

Capital: 100,000 yen (c)

No. of workers:

Type and number of production machinery: 8 lathes, 2 drilling machines, and electric motors totaling 15 hp (c)

Type of products, and daily, monthly, or annual production capacity: 1939 annual capacity: 20 lathes and 20 drilling machines (c)

Actual daily, monthly, or annual output:

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941

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Name of plant: Sheng-heng Machinery Plant (cd)

Location of plant: Tientsin (cd)

Date operation began: March 1938 (cd)

Capital: 120,000 yen (c). 2,049,000 yen (d)

No. of workers: 240 (d)

Type and number of production machinery: 25 lathes, 7 drilling machines, and electric motors totaling 132 hp (c). 120 lathes, 14 drilling machines, 18 grinding machines, 5 planners, and 10 turret lathes (d)

Type of products, and daily, monthly, or annual production capacity: Armament parts and railway equipment (cd)
1939 annual capacity: 15,000 coal-mine cars (c)

Actual daily, monthly, or annual output: 1940 output: 341,200 yen worth of armaments and armament parts, and 1,484,800 yen worth of various machinery; 1941 output: 275,800 yen worth of armaments and armament parts, and 1,243,000 yen worth of various machinery (d)

Remarks:

SOURCES

(a) Kahoku Koba Meiba, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April [redacted]

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939 [redacted]

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941 [redacted]

(d) Kita Shina Keizai Tokei Teiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943, [redacted]

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RESTRICTED

Name of plant: T'ai-yuan Foundry (acd)

Location of plant: T'ai-yuan (acd)

Date operation began: 1925 (acd)

Capital: 1,000,000 yen (a)

No. of workers: 383 (a) 508 (d)

Type and number of production machinery: 62 lathes, 12 drilling machines, and electric motors totaling 2,631 hp (c). 173 lathes, four melting pots, one electric furnace, and four steam hammers (d)

Type of products, and daily, monthly, or annual production capacity: 1939 annual capacity: 6,000 MT of ordinary iron castings, 960 MT of steel castings, 2,400 MT of other types of castings, and 12,000 MT of machinery (ac).

Actual daily, monthly, or annual output: 1940 output: 80,718 yen worth of machinery and machinery parts, 130,824 yen worth of iron castings, 252,258 yen worth of steel castings, 46,298 yen worth of automobile parts, 50,021 yen worth of armaments and armament parts, and 2,095 yen worth of other products; 1941 output: 108,158 yen worth of machinery and machinery parts, 191,084 yen worth of iron castings, 91,940 yen worth of steel castings, 14,312 yen worth of automobile parts, 196,432 yen worth of armaments and armament parts, and 39,765 yen worth of other products (d)

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China For 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941 STAT

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939 STAT

(c) Hokushi Shuyo Koba oyobi Jiyujo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941 STAT

(d) Kita Shina Keizai Tokei Teiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943, STAT

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Name of plant: I-sheng Ironworks (a)

Location of plant: T'ang-shan

Date operation began: Sep 1924 (a)

Capital: 5,000 yen (a)

No. of workers: 43 (a)

Type and number of production machinery:

Type of products, and daily, monthly, or annual production capacity: 1939 annual capacity: 240 diesel engines (a)

Actual daily, monthly, or annual output: 1939 output: 24 diesel engines, and 25,000 yen worth of machinery repairs (a)

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941

(d) Kita Shina Keizai Tokei Taiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943,

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Name of plant: I-ho-shun Ironworks (a)

Location of plant: T'ang-shan (a)

Date operation began: Jul 1933 (a)

Capital: 5,000 yen (a)

No. of workers: 20 (a)

Type and number of production machinery:

Type of products, and daily, monthly, or annual production capacity: 1939 annual capacity: 69 diesel engines, and some pumps and oil extracting machines (a)

Actual daily, monthly, or annual output: 1939 output: 13 diesel engines, 130 pumps and 13 oil extracting machines (a)

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941

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Name of plant: I-shun-hsing Ironworks (a)

Location of plant: T'ang-shan (a)

Date operation began: April 1937 (a)

Capital: 8,000 yen (a)

No. of workers: 24 (a)

Type and number of production machinery:

Type of products, and daily, monthly, or annual production capacity: Diesel engines, oil extracting machines, and repairs of various machinery (a)

Actual daily, monthly, or annual output: 1939 output: 12 oil extracting machines, three diesel engines, and 8,000 yen worth of machinery repairs (a)

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941 STAT

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939 STAT

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941 STAT

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Name of plant: Fu-hsing-ch'eng Ironworks (a)

Location of plant: T'ang-shan (a)

Date operation began: Feb 1939 (a)

Capital: 8,000 yen (a)

No. of workers: 26 (a)

Type and number of production machinery:

Type of products, and daily, monthly, or annual production capacity: Oil extracting machines, noodle making machines, and rollers (a)

Actual daily, monthly, or annual output: 1939 output: five oil extracting machines, five noodle making machines, and 10 rollers (a)

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941

(d) Kita Shina Keizai Tokei Teiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943,

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Name of plant: Yu-te Ironworks (a)

Location of plant: Shih-chia-chuang (a)

Date operation began: Jan 1937 (a)

Capital: 8,000 yen (a)

No. of workers: 41 (a)

Type and number of production machinery:

Type of products, and daily, monthly, or annual production capacity: Looms, noodle making machines, stoves, and spindles (a)

Actual daily, monthly, or annual output: 1939 output: 300 looms, 180 noodle making machines, 15,750 kg of stoves, and 2,500 spindles (a)

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941

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Name of plant: Ho-ch'ing-te Ironworks (a)

Location of plant: Shih-chia-chuang (a)

Date operation began: 1924 (a)

Capital: 4,000 yen (a)

No. of workers: 10 (a)

Type and number of production machinery:

Type of products, and daily, monthly, or annual production capacity: Noodle making machines, spindles for spinning machines, looms, and machinery parts (a)

Actual daily, monthly, or annual output: 1939 output: eight noodle making machines valued at 325 yen, 25 spinning machines valued at 1,075 yen, 15 looms valued at 600 yen, and 9,090 yen worth of machinery parts (a)

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941

(d) Kita Shina Keizai Tokei Seiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943,

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Name of plant: Li-yuan-ying Ironworks (a)

Location of plant: Shih-chia-chuang (a)

Date operation began: 1922 (a)

Capital: 5,000 yen (a)

No. of workers: 19 (a)

Type and number of production machinery:

Type of products, and daily, monthly, or annual production capacity: Noodle making machines, spinning machines, looms, oil extracting machines, and machinery parts (a)

Actual daily, monthly, or annual output: 1939 output: 55 noodle making machines valued at 2,215 yen, 88 spinning machines valued at 3,654 yen, 65 looms valued at 2,665 yen, 33 oil extracting machines valued at 8,260 yen, and 10,200 yen worth of machinery parts (a)

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941

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RESTRICTED

Name of plant: Santo Machinery Factory (a)

Location of plant: Tsinan (a)

Date operation began:

Capital: 10,000 yen (a)

No. of workers: 12 (a)

Type and number of production machinery: Five lathes, 6 drilling machines, and one electric motor (a)

Type of products, and daily, monthly, or annual production capacity:

Actual daily, monthly, or annual output: 1939 output: 30 shaping machines valued at 30,000 yen, and 300,000 pieces of drills valued at 30,000 yen (a)

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941 STAT

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939 STAT

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941 STAT

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Name of plant: Hua-hsing Machinery Factory (a)

Location of plant: Tainan (a)

Date operation began: 1932 (a)

Capital: 20,000 yen (a)

No. of workers: 20 (a)

Type and number of production machinery:

Type of products, and daily, monthly, or annual production capacity: 1939 annual capacity: 100 textile machinery (a)

Actual daily, monthly, or annual output: 1939 output: 50 textile machinery valued at 10,000 yen (a)

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941 STAT

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939 STAT

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941 STAT

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Name of plant: Pu-ch'ang-heng Ironworks (a)

Location of plant: Tsinan (a)

Date operation began: 1928 (a)

Capital: 7,000 yen (a)

No. of workers: 20 (a)

Type and number of production machinery:

Type of products, and daily, monthly, or annual production capacity: 1939 annual capacity: 7,000 yuan worth of various types of machinery (a)

Actual daily, monthly, or annual output: 1939 output: 5,000 yen worth of various types of machinery (a)

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941

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Name of plant: T'ien-ch'eng Ironworks (a)

Location of plant: Tsinan (a)

Date operation began: 1928 (a)

Capital: 20,000 yen (a)

No. of workers: 21 (a)

Type and number of production machinery:

Type of products, and daily, monthly, or annual production capacity: 1939 annual capacity: 30,000 yuan worth of textile machinery (a)

Actual daily, monthly, or annual output: 1939 output: 8,130 yen worth of textile machinery (a)

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941

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Name of plant: Tung-yuan-sheng Ironworks (a)

Location of plant: Tsinan (a)

Date operation began: 1934 (a)

Capital: 15,000 yen (a)

No. of workers: 55 (a)

Type and number of production machinery:

Type of products, and daily, monthly, or annual production capacity: 1939 annual capacity: two looms and six cloth printing machines (a)

Actual daily, monthly, or annual output: 1939 output: 8 looms valued at 16,200 yen (a)

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941

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STAT

Name of plant: Fu-feng Ironworks (a)

Location of plant: Wei-hsien (a)

Date operation began: 1930 (a)

Capital: 24,000 yen (a)

No. of workers: 22 (a)

Type and number of production machinery:

Type of products, and daily, monthly, or annual production capacity: 1939 annual capacity: 91 cotton ginning machines, and 365 spinning machines (a)

Actual daily, monthly, or annual output: 1939 output: 119 cotton ginning machines valued at 21,700 yen (a)

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941 STAT

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939 STAT

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Name of plant: T'ien-feng Ironworks (a)

Location of plant: Wei-hsien (a)

Date operation began: 1929 (a)

Capital: 4,500 yen (a)

No. of workers: 25 (a)

Type and number of production machinery:

Type of products, and daily, monthly, or annual production capacity: 1939 annual capacity: 184 cotton ginning machines and 538 foot-operated looms (a)

Actual daily, monthly, or annual output: 1939 output: four cotton ginning machines valued at 1,200 yen, and six foot-operated looms valued at 1,720 yen (a)

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941 STAT

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939 STAT

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Name of plant: Ch'iao-ch'ing Industrial Company's Factory (a)

Location of plant: Tsinan (a)

Date operation began: May 1938 (a)

Capital: 100,000 yen (a)

No. of workers: 94 (a)

Type and number of production machinery:

Type of products, and daily, monthly, or annual production capacity: 1939 annual capacity: 300 MT of railway signals (a)

Actual daily, monthly, or annual output: 1939 output: 150 MT of railway signals valued at 300,000 yen (a)

Remarks:

SOURCES -

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

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Name of plant: San-ho-i Ironworks (a)

Location of plant: Tsinan (a)

Date operation began: Feb 1936 (a)

Capital: 6,000 yen (a)

No. of workers: 30 (a)

Type and number of production machinery:

Type of products, and daily, monthly, or annual production capacity: 1939 annual capacity: 152,500 kg of railway spare parts (a)

Actual daily, monthly, or annual output: 1939 output: 144,400 kg of railway spare parts valued at 67,930 yen (a)

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

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Name of plant: Nakagoye Ironworks (a)

Location of plant: T'ai-yuan (a)

Date operation began: 1939 (a)

Capital: 60,000 yen (a)

No. of workers: 40 (a)

Type and number of production machinery:

Type of products, and daily, monthly, or annual production capacity: Machinery parts (a)

Actual daily, monthly, or annual output: 1939 output: 85,000 yen worth of machinery parts (a)

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

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Name of plant: T'ung-hsing Ironworks (a)

Location of plant: T'ai-yuan (a)

Date operation began: 1935 (a)

Capital: 2,000 yen (a)

No. of workers: 11 (a)

Type and number of production machinery:

Type of products, and daily, monthly, or annual production capacity: Cotton ginning machines (a)

Actual daily, monthly, or annual output: 1939 output: 36 cotton ginning machines valued at 2,160 yen (a)

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941

(d) Kita Shina Keizai Tokei Taiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943,

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Name of plant: North China Rolling Stock Company, Tsingtao Branch (d)

Location of plant: Tsingtao (d)

Date operation began: June 1940 (d)

Capital: 30,000,000 yen (Main Office) (d)

No. of workers: 1,155 (d)

Type and number of production machinery: 83 lathes, 33 boring machines, 13 shaping machines, 3 gringing machines, and 7 presses (d).

Type of products, and daily, monthly, or annual production capacity: Construction and repairs of locomotives and rolling stock (d)

Actual daily, monthly, or annual output: 1940 output: constructed eight locomotives, four baggage cars, 135 30-MT coal cars, and repaired 15 locomotives, 45 passenger cars, and 523 freight cars; 1941 output: constructed 157 locomotives, 8 baggage cars, and 300 30-MT coal cars, and repaired 51 locomotives, 45 passenger cars, and 815 freight cars (d).

Remarks:

SOURCES:

(a) Kahoku Koba Meibo, Showa Nenndo (Industrial Directory of North China for 1937), published by the North China Industrial Investigation Committee, East Asia Board, April 1940

STAT

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of 59th Force, 31 December 1939

STAT

(c) Hokushi Shuyo Kobu oyobi Zingyojo Setsuu Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941

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(d) Kita Shina Keizai Tokei Teiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943,

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Name of plant: **Dairiku Transportation Equipment Mfg Company (c)**

Location of plant: **Tientsin (c)**

Date operation began: **1938 (c)**

Capital: **3,000,000 yen (c)**

No. of workers:

Type and number of production machinery: **13 lathes and 2 drilling machines (c)**

Type of products, and daily, monthly, or annual production capacity: **1939 production capacity: 4,320 MT of spikes, 800 MT of bridge materials, 360 railcars, assemble 360 freight cars, construct 240 railway switches, 240 couplers, 480 railway signals, and 1,200 MT of axle boxes and brake shoes, etc. (c)**

Actual daily, monthly, or annual output:

Remarks:

SOURCES

(a) Kahoku Kobo Haibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941.

(b) Hokushi Shuyo Kobo Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of YAMA Force, 31 December 1939.

(c) Hokushi Shuyo Kobo oyobi Sigyojo Seinan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941.

(d) Kita Shina Keizai Tokei Teiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943.

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Name of plant: T'ang-shan Railway Shop (cd)

Location of plant: T'ang-shan (cd)

Date operation began: April 1939 (cd)

Capital: 400,000,000 yen (d)

No. of workers: 2,983 (d)

Type and number of production machinery: 250 various types of machine tools (d)

Type of products, and daily, monthly, or annual production capacity: Repairs of rolling stock (cd)

Actual daily, monthly, or annual output:

Remarks:

SOURCES

(a) Kahoku Kogo Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Kogo Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of HOMA Force, 31 December 1939

(c) Hokushi Shuyo Kogo oyobi Jigyojo Setsuzoku Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and Their Actual Production Data), published by the South Manchuria Railway, January 1941

(d) Kita Shina Keizai Tokei Taiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943,

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Name of plant: **Tientsin Railway Shop (cd)**

Location of plant: **Tientsin (cd)**

Date operation began: **April 1939 (cd)**

Capital: **400,000,000 yen (d)**

No. of workers: **850 (d)**

Type and number of production machinery: **Eighty various types of machine tools (d)**

Type of products, and daily, monthly, or annual production capacity: **Repairs of rolling stock (cd)**

Actual daily, monthly, or annual output:

Remarks:

SOURCES

(a) Kahoku Kogyo Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941.

(b) Hokushi Shuyo Kogyo Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of 12th Force, 31 December 1939.

(c) Hokushi Shuyo Kogyo oyobi Rikuyo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941.

(d) Kita Shina Keizai Tokei Taiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943.

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Name of plant: Ch'ang-hsin-tien Railway Shop (cd)

Location of plant: Ch'ang-hsin-tien (cd)

Date operation began: April 1939 (cd)

Capital: 400,000,000 yen (d)

No. of workers: 1,541 (d)

Type and number of production machinery: 272 various types of machine tools (d)

Type of products, and daily, monthly, or annual production capacity: Repairs of rolling stock (cd)

Actual daily, monthly, or annual output: 1940 output: repaired 309 locomotives, 117 gasoline cars, 237 passenger cars, and 1,359 freight cars (d). 1941 output: repaired 300 locomotives, one gasoline car, 156 passenger cars, and 1,159 freight cars (d).

Remarks:

SOURCES

(a) Kahoku Kōbu Meiko, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Kōbu Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of The Army Forces, 31 December 1939

(c) Hokushi Shuyo Kōbu oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941

(d) Kita Shina Keizai Tokei Teiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943,

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Name of plant: Shin-men Railway Shop (cd)

Location of plant: Shin-men (Shih-chia-chuang) (cd)

Date operation began: April 1939 (cd)

Capital: 400,000,000 yen (d)

No. of workers: 1,013 (d)

Type and number of production machinery: 39 various types of machine tools (d)

Type of products, and daily, monthly, or annual production capacity: Repairs of rolling stock (cd)

Actual daily, monthly, or annual output: 1940 output: repaired 129 locomotives, 157 passenger cars, 1,227 freight cars, and 13 other types of railway cars. 1941 output: repaired 180 locomotives, 208 passenger cars, 1,710 freight cars, and 71 other types of railway cars (d).

Remarks:

SOURCES -

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941 [redacted]

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939 [redacted]

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941 [redacted]

(d) Kita Shina Keizai Tokei Teiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943, [redacted]

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Name of plant: Nan-k'ou Railway Shop (cd)

Location of plant: Nan-k'ou (cd)

Date operation began: April 1939 (cd)

Capital:

No. of workers: 1,125 (d)

Type and number of production machinery: 52 various types of machine tools (d)

Type of products, and daily, monthly, or annual production capacity: Repairs of rolling stock (cd)

Actual daily, monthly, or annual output: 1940 output: repaired 90 locomotives, 79 passenger cars, and 528 freight cars. 1941 output: repaired 114 locomotives, 97 passenger cars, and 782 freight cars (d).

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of IJA Force, 31 December 1939

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941

(d) Kita Shina Keizai Tokei Taiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943,

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Name of plant: **Kalgan Railway Shop (cd)** **RESTRICTED**

Location of plant: **Kalgan (cd)**

Date operation began: **April 1939 (cd)**

Capital:

No. of workers: **853 (d)**

Type and number of production machinery: **123 various types of machine tools (cd)**

Type of products, and daily, monthly, or annual production capacity: **Repairs of rolling stock (cd)**

Actual daily, monthly, or annual output: **1941 output: repaired 104 locomotives, 54 passenger cars, and 647 freight cars (d).**

Remarks:

SOURCES

(a) Kahoku Koka Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941 STAT

(b) Hokushi Shuyo Koka Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of CINC Force, 31 December 1939 STAT

(c) Hokushi Shuyo Koka oyobi Jigyojo Seisan Jisseki Tohiron Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941 STAT

(d) Kita Shina Keizai Tokei Teiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943, STAT

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Name of plant: **T'ai-yuan Railway Shop (cd)**

Location of plant: **T'ai-yuan (cd)**

Date operation began: **April 1939 (cd)**

Capital:

No. of workers: **1,554 (d)**

Type and number of production machinery: **84 various types of machine tools (cd)**

Type of products, and daily, monthly, or annual production capacity: **Repairs of rolling stock (cd)**

Actual daily, monthly, or annual output: **1940 output: repaired 215 locomotives, 140 passenger cars, 1,086 freight cars, 111 automobiles, and 115 railcars (d). 1941 output: repaired 273 locomotives, 125 passenger cars, 1,287 freight cars, 167 automobiles, and 214 railcars (d).**

Remarks:

SOURCES

(a) Kahoku Kogo Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941.

(b) Hokushi Shuyo Kobo Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of 11th Army Force, 31 December 1939.

(c) Hokushi Shuyo Kobo oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941.

(d) Kita Shina Keizai Tokei Teiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943.

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Name of plant: **Tsinan Railway Shop (cd)**

Location of plant: **Tsinan (cd)**

Date operation began: **April 1939 (cd)**

Capital:

No. of workers: **1,958 (d)**

Type and number of production machinery: **153 various types of machine tools (d)**

Type of products, and daily, monthly, or annual production capacity: **Repairs of rolling stock (cd)**

Actual daily, monthly, or annual output:

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Sangyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of Navy Force, 31 December 1939 (

(c) Hokushi Shuyo Koba oyobi Jigyojo Sekisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and Their Actual Production Data), published by the South Manchuria Railway, January 1941

(d) Kita Shina Keizai Tokei Teiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943,

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STAT

Name of plant: **Tsinan Railway Shop (cd)**

Location of plant: **Tsinan (cd)**

Date operation began: **April 1939 (cd)**

Capital:

No. of workers: **1,958 (d)**

Type and number of production machinery: **153 various types of machine tools (d)**

Type of products, and daily, monthly, or annual production capacity: **Repairs of rolling stock (cd)**

Actual daily, monthly, or annual output:

Remarks:

SOURCES

(a) Kahoku Kaba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941 STAT

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of Tata Force, 31 December 1939 STAT

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941 STAT

(d) Kita Shina Keizai Tokei Taiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943, STAT

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Name of plant: **Soochow Railway Shop (cd)**

Location of plant: **Soochow (cd)**

Date operation began: **April 1939 (cd)**

Capital:

No. of workers: **382 (d)**

Type and number of production machinery: **23 various types of machine tools (d)**

Type of products, and daily, monthly, or annual production capacity: **Repairs of rolling stock (cd)**

Actual daily, monthly, or annual output:

Remarks:

SOURCES

(a) Kahoku Koba Meiho, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941 [redacted]

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of Tuan Force, 31 December 1939 [redacted]

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jizaeki Yokizan Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941 [redacted]

(d) Kita Shina Keizai Tokei Teiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943, [redacted]

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Name of plant: **North China Rolling Stock Company, Shan-hai-kuan Plant (cd)**

Location of plant: **Shan-hai-kuan (cd)**

Date operation began: **June 1940 (d)**

Capital:

No. of workers: **554 (d)**

Type and number of production machinery: **110 machine tools and 183 various other machinery (d)**

Type of products, and daily, monthly, or annual production capacity: **Manufacture bridge materials, switches, pumps, radiators, handcars, and brake shoes for rolling stock (d)**

Actual daily, monthly, or annual output: **1940 output: 82 spans of bridge materials, 56 railway switches, 10 pumps, 270 radiators, and 5,200 brake shoes for rolling stock. 1941 output: 133 spans of bridge materials, 81 railway switches, 14 pumps, 4,200 radiators, and 250 handcars (d).**

Remarks:

SOURCES

(a) Kabuku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April [redacted]

(b) Homashi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of the Force, 31 December [redacted]

(c) Hokushi Shuyo Koba oyoki Jigyojo Seisan Jisaoki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941 [redacted]

(d) Kita Shina Keizai Tokei Teiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943, [redacted].

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Name of plant: Yang-ch'uan Steel Works (abcd)

Location of plant: Yang-ch'uan (abcd)

Date operation began: 1926 (a)

Capital: 700,000 yen (a(, 1,989, 583 yen (c)

No. of workers: 631 (a), 653 (b), 935 (d)

Type and number of production machinery: One 20-MT blast furnace, and two electric generators totaling 4,075 kw (b). One 20-MT blast furnace, and one 30-MT blast furnace (under construction) (cd).

Type of products, and daily, monthly, or annual production capacity: 1939 annual capacity: 7,200 MT of pig iron, and 7,000 MT or iron castings (a). Monthly capacity: 452 MT of 2d grade pig iron, 45 MT of 3d grade pig iron, 4 MT of 4th grade pig iron, and 15 MT of scrap iron. (b). Annual capacity: 7,200 MT of pgi iron, 7,000 MT of iron castings, and 600 MT of pig iron by native method (c). Annual capacity: 7,300 MT of pig iron (d).

Actual daily, monthly, or annual output: 1939 output: 6,872 MT of pig iron, and 260 MT or iron castings (a). 1936 output, 5,000 MT of pig iron, 1937 output, 7,200 MT of pig iron, 1938, 1,930 MT of pig iron, and 1939 output, 4,581 MT of pig iron (c). 1940 output, 7,117 MT of pig iron, and 1941 output, 7,283 MT of pig iron (d).

Remarks:

SOURCES

(a) Kahoku Kogo Kaiho, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1940. STAT

(b) Hokushi Shuyo Kogo Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of China Force, 31 December 1939 STAT

(c) Hokushi Chuyo Kogo oyobi Jigyono Setsuzoku Jikoseki Hyo (Relevant Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941 STAT

(d) Kita Shina Keizai Tokei Taiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943, STAT

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Name of plant: T'ai-yuan Steel Works (abcd)

Location of plant: T'ai-yuan (abcd)

Date operation began: 1938 (abcd)

Capital: 5,140,000 yen (a) 1,635,189 yen (as of Mar 1940) (c)

No. of workers: 1,277 (a), 736 (b), 2,319 (d)

Type and number of production machinery: One blast furnace (120MT), one 40-MT blast furnace, and two electric generators totaling 5,000 kw (b). One 120-MT blast furnace, one 40-MT blast furnace, two 30-MT open hearth furnaces, by-products plant, and rolling mill (cd).

Type of products, and daily, monthly, or annual production capacity: 1939 annual capacity: 14,400 MT of pig iron (a). Annual output capacity: 57,000 MT of pig iron, 43,200 MT of steel, 900 MT of benzol, 238 MT of naphtha, and 360 MT of pitch (c). Annual capacity: 58,400 MT of pig iron, 54,000 MT of steel ingots, 43,200 MT of steel materials, 5,400 MT of by-products (d).

Actual daily, monthly, or annual output: 1939 output: 3,319 MT of pig iron (a). 1939 output: 1,112 MT of pig iron (c). 1940 output: 10,337 MT of pig iron, 282 MT of by-products; 1941 output: 33,207 MT of pig iron, 6,102 MT of steel ingots, 1,889 MT of steel materials, and 2,783 MT of by-products (d).

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941 STAT

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of TADA Force, 31 December 1939 STAT

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisaeki Tohiran Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941 STAT

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Name of plant: Shih-ching-shan Steel Works (bcd)

Location of plant: Peiping (bcd)

Date operation began: 1938 (bcd)

Capital: 1,300,000 yen (c)

No. of workers: 155 Japanese and 20,630 Chinese (b). 556 (d).

Type and number of production machinery: One 250-MT blast furnace (bcd). Other installations consist of one 89 meters long iron ore storage bin, one 22 meters long coke bin, one conveyor system, four hot-air furnaces, two blowers, 50 coke ovens, five 500-hp steam boilers, two 250 kw generators, 8 kw of railway, two locomotives, 38 freight cars, two sedimentation ponds, and two water reservoirs (b).

Type of products, and daily, monthly, or annual production capacity: Monthly capacity: 94 MT of 1st grade pig iron, 333 MT of 2d grade pig iron, 1,641 MT of 3d grade pig iron, and 63 MT of coarse pig iron (b). Annual output capacity: 80,000 MT of pig iron (c). Annual output capacity: 60,000 MT of pig iron (d).

Actual daily, monthly, or annual output: 1938 output: 2,112 MT of pig iron; 1939 output: 33,204 MT of pig iron (c). 1940 output: 32,069 MT of pig iron; 1941 output: 70,860 MT of pig iron (d).

Remarks: Consumes 4,563.5 MT of iron ore, 4,758.8 MT of coal, 3,533.6 MT of limestone, 31.1 MT of manganese, and 63.3 MT of coarse pig iron per year as raw materials (b).

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of Navy Force, 31 December 1939

(c) Hokushi Shuyo Kobu oyobi Jigyojo Seisan Jisseki Tchirun Hyo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941

(d) Kita Shina Keizai Tokei Teiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943,

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Name of plant: Shih-ching-shan Steel Works (bcd)

Location of plant: Peiping (bcd)

Date operation began: 1938 (bcd)

Capital: 1,300,000 yen (c)

No. of workers: 155 Japanese and 20,630 Chinese (b). 55b (d).

Type and number of production machinery: One 250-MT blast furnace (bcd). Other installations consist of one 89 meters long iron ore storage bin, one 22 meters long coke bin, one conveyor system, four hot-air furnaces, two blowers, 50 coke ovens, five 500-hp steam boilers, two 250 kw generators, 8 kw of railway, two locomotives, 38 freight cars, two sedimentation ponds, and two water reservoirs (b).

Type of products, and daily, monthly, or annual production capacity: Monthly capacity: 94 MT of 1st grade pig iron, 333 MT of 2d grade pig iron, 1,641 MT of 3d grade pig iron, and 63 MT of coarse pig iron (b). Annual output capacity: 80,000 MT of pig iron (c). Annual output capacity: 60,000 MT of pig iron (d).

Actual daily, monthly, or annual output: 1938 output: 2,112 MT of pig iron; 1939 output: 33,204 MT of pig iron (c). 1940 output: 32,069 MT of pig iron; 1941 output: 70,860 MT of pig iron (d).

Remarks: Consumes 4,563.5 MT of iron ore, 4,758.8 MT of coal, 3,533.6 MT of limestone, 31.1 MT of manganese, and 63.3 MT of coarse pig iron per year as raw materials (b).

SOURCES

(a) Kahoku Keiza Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Keiza Chosa Ryo (Investigation Report on North China's Principal Industries), published by the Investigation Section of Navy Force, 31 December 1939

(c) Hokushi Shuyo Keiza oyobi Jigyojo Setsuzoku Jisseki Ichiran Ryo (Principal Industrial Plants and Establishments in North China, and their Actual Production Data), published by the South Manchuria Railway, January 1941

(d) Kita Shina Keizai Tokei Teiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943,

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Name of plant: **Uraga Shipbuilding Company, Tsingtao Branch (cd)**

Location of plant: **Tsingtao (cd)**

Date operation began: **April 1938 (cd)**

Capital: **37,500,000 yen (main office) (d).**

No. of workers: **733 (d)**

Type and number of production machinery: **47 lathes, 24 boring machines, and electric motors totaling 1,253 hp (c). 30 lathes, one milling machine, and one boring machine (d).**

Type of products, and daily, monthly, or annual production capacity: **Construction and repairs of ships (c). Construction repairs of ships, manufacture and repairs of various machinery, manufacture of oil storage tanks and consturction materials (d). Annual capacity: construction of ships totaling 1,500 MT, construction of 25 300-MT storage tanks, and 300 MT of construction materials (d)**

Actual daily, monthly, or annual output: **1940 output: constructed three new ships, 14 oil storage tanks, and repaired 1,030 military vessels, 245 civilian vessels, and 187 pieces of various machinery; 1941 output: constructed three new ships, and 21 oil storage tanks, and repaired 1,222 military vessels, 242 civilian vessels, and 188 peices of various machinery (d).**

Remarks:

SOURCES

(a) Kahoku Kaba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941.

(b) Hokushi Shuyo Kaba Chose Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of IJA Force, 31 December 1939.

(c) Hokushi Chuyo Kaba oyobi Jigyojo Seisan Jisseki Kahyan Hyo (Principal Industrial Plants and Establishments in North China, and Their Actual Production Data), published by the South Manchuria Railway, January 1941.

(d) Kita Shina Keizai Tokei Teiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943.

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Name of plant: **Nozaki Automobile Factory (ac)**

Location of plant: **Peiping (ac)**

Date operation began: **March 1923 (ac)**

Capital: **85,000 yen (a)**

No. of workers: **90 (a)**

Type and number of production machinery: **Two lathes, four electric drills, four grinding machines, and 11 electric motors (a). Two lathes and one boring machine (c).**

Type of products, and daily, monthly, or annual production capacity: **Automobile spare parts, and automobile and bus bodies (a). Automobile and bicycle spare parts (c).**

Actual daily, monthly, or annual output: **1939 output: 108,140 yen worth of automobile spare parts, and automobile and bus bodies (a).**

Remarks:

SOURCES

(a) Kahoku Koba Meibo, Showa 14-nendo (Industrial Directory of North China for 1939), published by the North China Industrial Investigation Committee, East Asia Board, April 1941

(b) Hokushi Shuyo Koba Chosa Hyo (Investigation Report on North China's Principal Industries), published by the Investigation Section of China Force, 31 December 1939

(c) Hokushi Shuyo Koba oyobi Jigyojo Seisan Jisseki Ichiran Hyo (Principal Industrial Plants and Establishments in North China, and Their Actual Production Data), published by the South Manchuria Railway, January 1941

(d) Kita Shina Keizai Tokei Taiyo (Statistical Tables for North China's Economics), published by the South Manchuria Railway, March 1943,

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